

MULTIMEDIA



UNIVERSITY

STUDENT ID NO

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MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 1, 2016/2017

DCS5018 – COMPUTER SYSTEMS AND APPLICATIONS (DIT & DBIS Students only)

11 OCTOBER 2016
2.30 p.m. - 4.30 p.m.
(2 Hours)

INSTRUCTIONS TO STUDENT

1. This Question paper consists of **SIX pages** (excluding the cover page).
2. Answer **ALL** questions in Section A on the **OMR sheet**.
3. Answer **ALL** questions in Section B in the **Answer Booklet**.

Section A: Multiple Choices Questions (40 marks)

Instruction: Shade your answers on the OMR sheet.

1. In binary language, each letter of the alphabet, each number, and each special symbol is made up of a unique combination of eight _____.
A. bytes
B. kilobytes
C. characters
D. bits
2. An Apple iPad and a Samsung Galaxy Tab are examples of _____ computers.
A. tablet
B. netbook
C. desktop
D. laptop
3. Inkjet printers and laser printers are examples of _____ printers.
A. nonimpact
B. impact
C. dot-matrix
D. thermal
4. _____ is the abbreviation for the place in the computer where the programs and data the computer is currently using are temporarily stored.
A. ROM
B. CPU
C. RAM
D. USB
5. Flash drives plug into a(n) _____.
A. USB port
B. serial port
C. expansion slot
D. drive bay
6. All of the following are ways to avoid injuries when working on computers EXCEPT _____.
A. placing a monitor at least 12" from the eyes
B. purchasing an adjustable chair
C. ensuring proper lighting
D. taking breaks
7. Which of the following optical storage media has the greatest storage capacity?
A. DVD DL
B. CD
C. DVD
D. BD
8. Software that enables you to display and interact with text and other media on the web is a web _____.
A. client
B. server
C. agent
D. browser

9. The unique identification number assigned to your computer when you connect to the Internet relates to all of the following EXCEPT _____.
A. dotted quad
B. path
C. dotted decimal
D. IP address
10. Which of the following is NOT a social networking site?
A. Facebook
B. Youtube
C. LinkedIn
D. iTunes
11. Which of the following is NOT a feature of the most popular web browsers?
A. Pinned tabs
B. Session restore
C. Tacked browsing
D. Thumbnail preview
12. In the URL http://www.cdp.mmu.edu.my/top_management.asp, the portion labeled "http" is the _____.
A. protocol
B. domain name
C. path
D. top-level domain
13. Which of the following top-level domains identifies a particular country?
A. .gov
B. .my
C. .edu
D. .info
14. AND, OR, and NOT are examples of _____ operators.
A. Boolean
B. Jacobian
C. relational
D. keyword
15. Using applications on smartphones and tablets to buy and sell products is known as _____ commerce.
A. smart
B. remote
C. mobile
D. web
16. Which of the following is an example of general productivity software application?
A. image editing
B. word processing
C. video editing
D. podcast
17. _____ software helps you manage e-mail, contacts, calendars, and tasks in the same application.
A. Spreadsheet
B. Presentation
C. Note Taking
D. Personal Information Management

18. All of the following are examples of software suites EXCEPT _____.
A. Microsoft Office 2013
B. Apache OpenOffice
C. Apple iWork
D. Microsoft OneNote
19. Which of the following is NOT a guideline for designing good presentation?
A. Be careful with choosing color.
B. Use bullets for key points: Limit is four to six bulleted points per slide.
C. Consider font size and style: Keep the font size large enough to read from the back of the room.
D. Keep animation and background audio to a maximum.
20. Which of the following is NOT a database software?
A. Oracle
B. Writer
C. MySQL
D. Microsoft Access
21. In Excel, the individual cells of a worksheet serve as _____, since each cell can contain a single piece of information about an object.
A. fields
B. records
C. tables
D. cell
22. OS X is the operating system developed by _____.
A. Apple
B. Microsoft
C. Google
D. Linux
23. The most essential software in your computer system is the _____.
A. operating system software
B. security software
C. application software
D. productivity software
24. All of the following are terms related to part of the boot process EXCEPT _____.
A. ROM
B. CMOS
C. RAM
D. USB
25. "E:\Home" denotes a _____ directory that is at the top of the filing structure of a computer.
A. top-level
B. cluster
C. root
D. upper-level

26. You can use the Windows _____ to check on a nonresponsive program.
- A. System Restore
 - B. Backup utility
 - C. Error-checking
 - D. Task Manager
27. The majority of smartphones use the _____ and _____ operating systems
- A. iOS, Android
 - B. iOS, Microsoft
 - C. Android, Microsoft
 - D. Microsoft, Linux
28. The basic input/output system (BIOS) is stored on a _____ chip.
- A. ROM
 - B. CPU
 - C. RAM
 - D. CMOS
29. The rule of thumb that predicts that CPU capacity will double every 2 years is called _____ Law.
- A. Charles's
 - B. Moore's
 - C. Intel's
 - D. Boyle's
30. Which of the following is the heaviest type of a computer?
- A. Laptop
 - B. Ultrabook
 - C. Tablet
 - D. Desktop
31. Which of the following activities is carried out by the ALU?
- A. Move read/write heads.
 - B. Perform arithmetic calculations.
 - C. Create virtual memory.
 - D. Render video images.
32. Which of the following is the smallest unit of measure?
- A. Megabyte
 - B. Petabyte
 - C. Terabyte
 - D. Gigabyte
33. Which of the following is NOT Non-volatile storage?
- A. ROM
 - B. Thumb Drive
 - C. Memory Card
 - D. Cache
34. Which of the following ports is NOT used to connect to a video card?
- A. HDMI
 - B. DDMI
 - C. USB
 - D. DisplayPort

35. Dolby Digital 7.1 takes digital sound and reproduces it in _____ channels.
A. six C. eight
B. seven D. nine
36. A _____ is a network located in your residence that connects to all your digital devices.
A. MAN C. HAN
B. WAN D. LAN
37. _____ is the actual speed of data transfer that is achieved and is always less than or equal to the data transfer rate.
A. Benchmark C. Bandwidth
B. Broadband D. Throughput
38. The slowest version of wireless Ethernet is _____.
A. 802.11n C. 802.11ab
B. 802.11g D. 802.11ac
39. _____ is made up of plastic or glass and transmits data at extremely fast speeds.
A. Fiber-optic C. Coaxial cable
B. Twisted pair D. Peer-to-peer
40. All wireless networks have their own name, referred to as the _____, which is used to identify the network.
A. service set identifier, SSID
B. network interface card, NIC
C. Piggybacking
D. Internet service providers, ISPs

Section B: 3 Structured Questions (60 marks)

*Instruction: Write your answers in the **Answer Booklet** provided.*

Question 1: [Total: 20 Marks]

- a) Differentiate between Solid-State Drive (SSD) and Optical Drive. [6m]
- b) Every time the CPU performs a program instruction, it goes through the same series of steps. Briefly explain **FOUR** steps. [4m]

Continued...

- c) Identify whether the file format below is audio or video. Give one characteristic of each file format.
- i. MPEG [2m]
 - ii. MP3 [2m]
 - iii. WAV [2m]
- d) Briefly describe the concept of 'tethering' with the aid of a diagram. [4m]

Question 2: [Total: 20 Marks]

- a) Explain **THREE** symptoms of virus infection. [6m]
- b) Give **FOUR** examples of antivirus software in the market nowadays. [4m]
- c) A network can be administered, or managed, in either of two main ways: Local administration or Central administration. With the aid of a diagram, differentiate between Local administration and Central administration. [10m]

Question 3: [Total: 20 Marks]

- a) What are the **FOUR** main operations of a database management systems (DBMS)? [4m]
- b) Discuss **THREE** disadvantages of using database. [6m]
- c) Illustrate and briefly explain the **FIVE** stages in the programming project process. [10m]